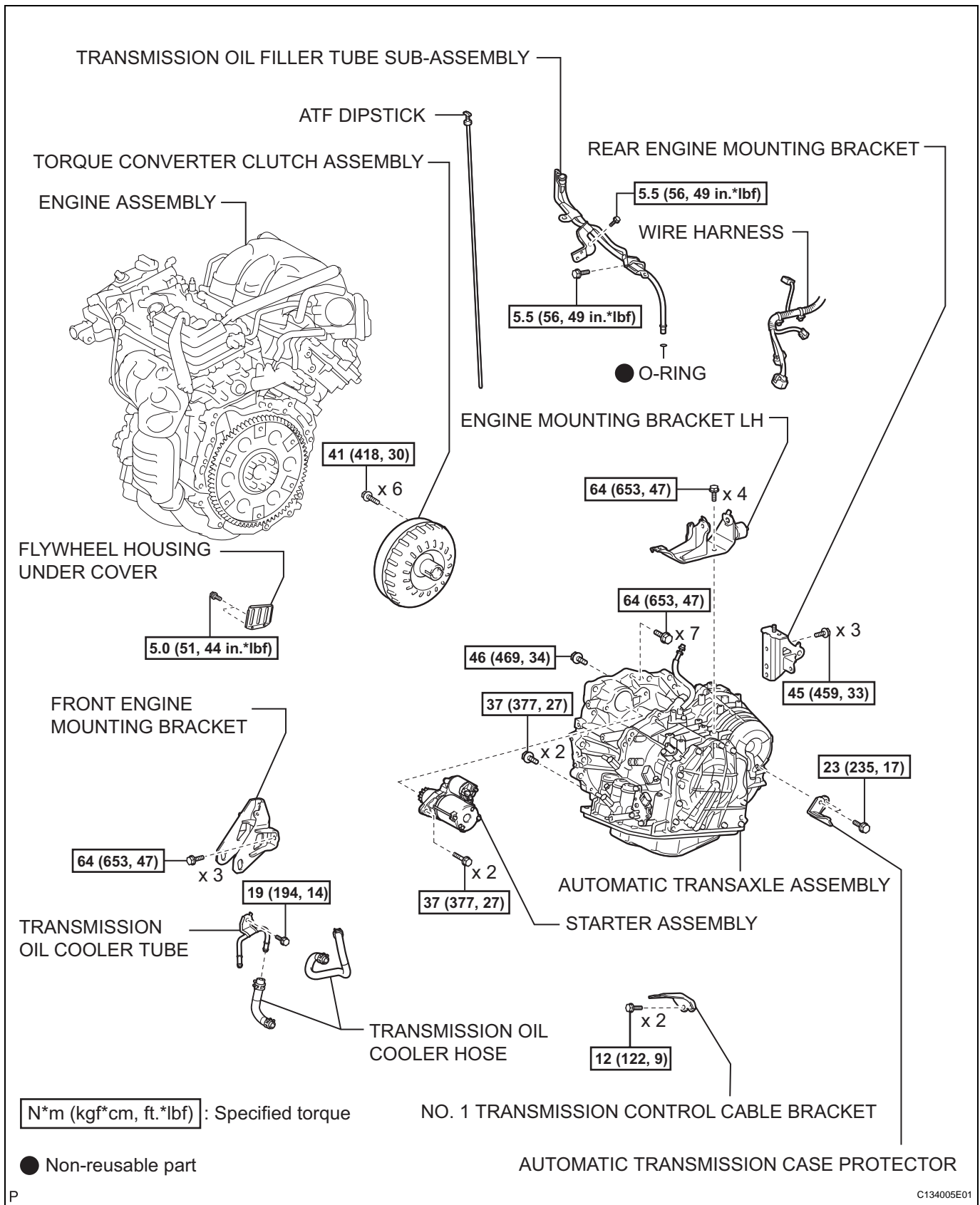


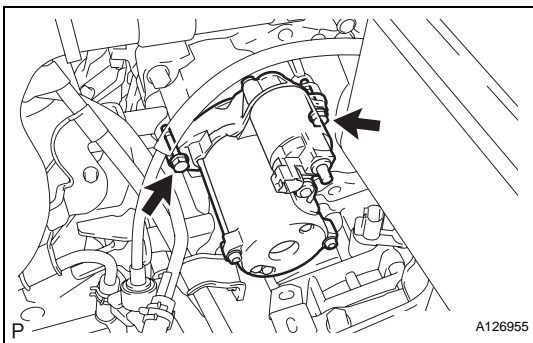
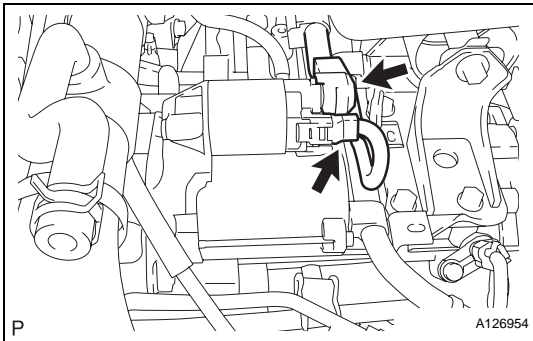
AUTOMATIC TRANSAXLE ASSEMBLY

COMPONENTS

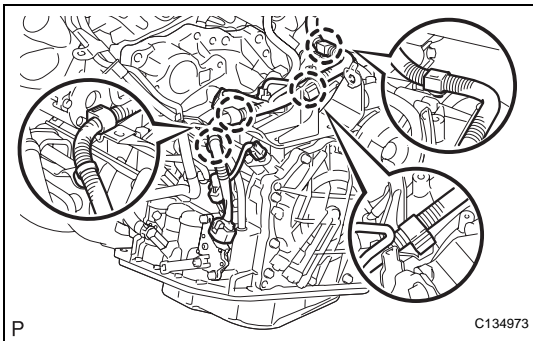


REMOVAL

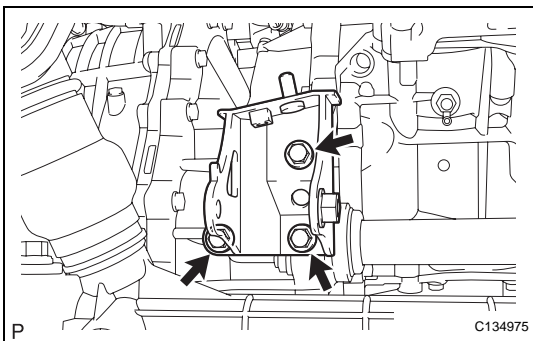
1. **REMOVE ENGINE ASSEMBLY WITH TRANSAXLE**
 - (a) Remove the engine with transaxle (see page [EM-21](#)).
2. **DRAIN AUTOMATIC TRANSAXLE FLUID**
 - (a) Remove the drain plug and gasket, and drain the ATF.
 - (b) Install a new gasket and the drain plug.
Torque: 47 N*m (479 kgf*cm, 35 ft.*lbf)
3. **REMOVE STARTER ASSEMBLY**
 - (a) Disconnect the starter connector.
 - (b) Open the terminal cap, and remove the nut and disconnect the starter wire.

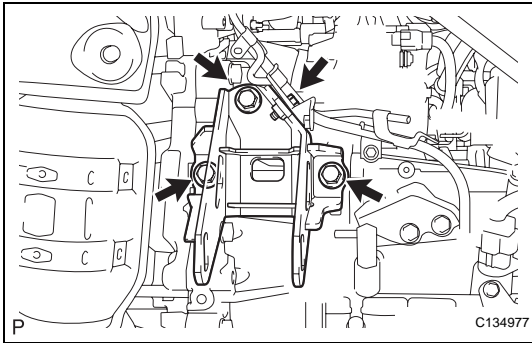


- (c) Remove the 2 bolts and starter.

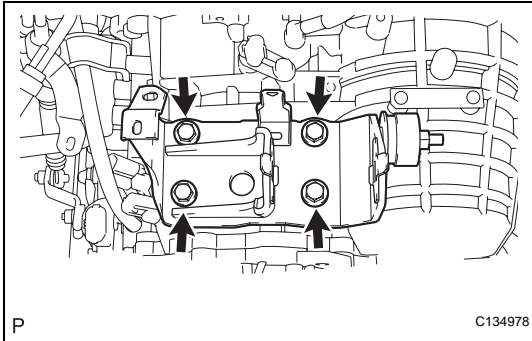


4. **DISCONNECT WIRE HARNESS**
 - (a) Disconnect the park/neutral position switch connector.
 - (b) Disconnect the transaxle wire connector.
 - (c) Disconnect the 2 speed sensor connectors.
 - (d) Disconnect the wire harness clamps.
5. **REMOVE TRANSMISSION OIL COOLER HOSE AND TUBE**
 - (a) Remove the oil cooler hoses and tube (see page [AX-151](#)).
6. **REMOVE REAR ENGINE MOUNTING BRACKET**
 - (a) Remove the 3 bolts and mounting bracket.

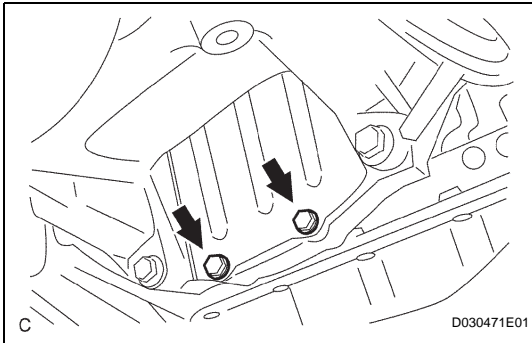


**7. REMOVE FRONT ENGINE MOUNTING BRACKET**

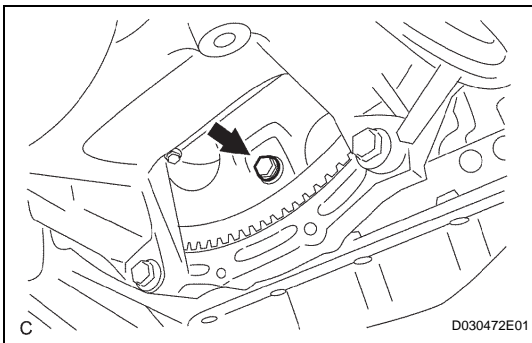
- (a) Remove the 4 bolts and mounting bracket.

**8. REMOVE ENGINE MOUNTING BRACKET LH**

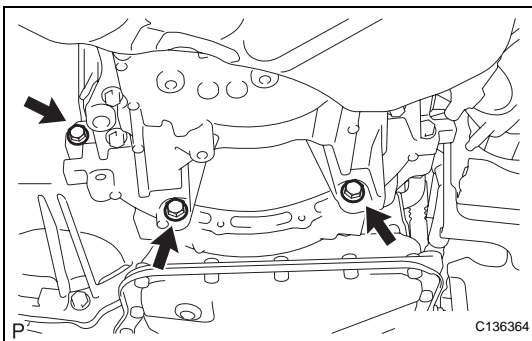
- (a) Remove the 4 bolts and mounting bracket.

**9. REMOVE AUTOMATIC TRANSAXLE ASSEMBLY**

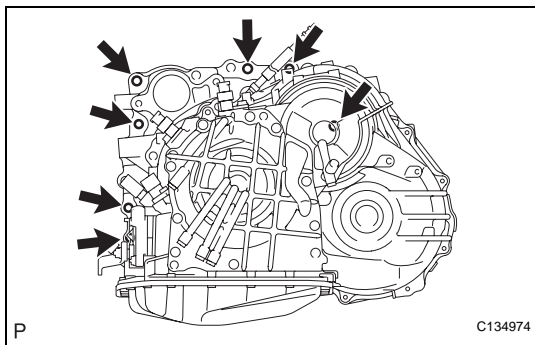
- (a) Remove the 2 bolts and flywheel housing under cover.



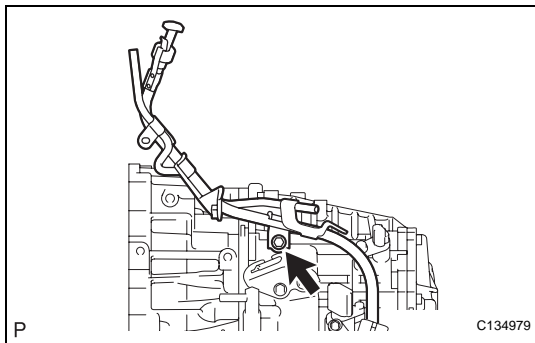
- (b) Turn the crankshaft to gain access and remove the 6 bolts while holding the crankshaft pulley bolt with a wrench.



- (c) Remove the 3 lower side mounting bolts.

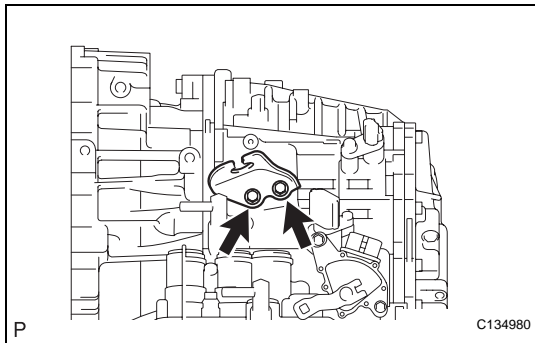


- (d) Remove the 7 upper side mounting bolts.
- (e) Separate and remove the automatic transaxle.



10. REMOVE TRANSMISSION OIL FILLER TUBE SUB-ASSEMBLY

- (a) Remove the ATF dipstick.
- (b) Remove the bolt and oil filler tube.



11. REMOVE NO. 1 TRANSMISSION CONTROL CABLE BRACKET

- (a) Remove the 2 bolts and cable bracket.

12. REMOVE AUTOMATIC TRANSMISSION CASE PROTECTOR

- (a) Remove the 2 bolts and protector.

13. REMOVE TORQUE CONVERTER CLUTCH ASSEMBLY

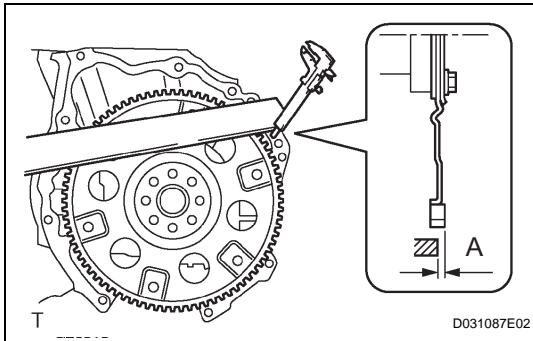
INSTALLATION

1. INSPECT TORQUE CONVERTER CLUTCH ASSEMBLY

- (a) Inspect the torque converter clutch (see page [AX-178](#)).

2. INSTALL TORQUE CONVERTER CLUTCH ASSEMBLY

- (a) Install the torque converter clutch to the automatic transaxle.
- (b) Using a vernier caliper, measure dimension A between the transaxle and end surface of the drive plate.



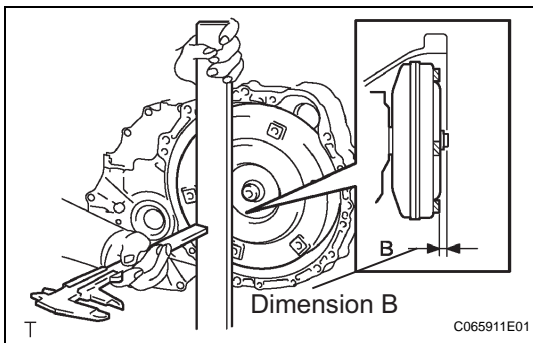
- (c) Using a vernier caliper and straightedge, measure dimension B shown in the illustration and check that B is greater than A.

Standard dimension:

A + 1.0 mm (0.039 in.) or more

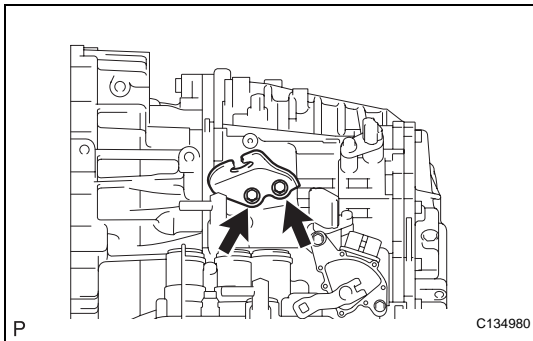
3. INSTALL AUTOMATIC TRANSMISSION CASE PROTECTOR

- (a) Install the protector with the 2 bolts.
Torque: 23 N*m (235 kgf*cm, 17 ft.*lbf)



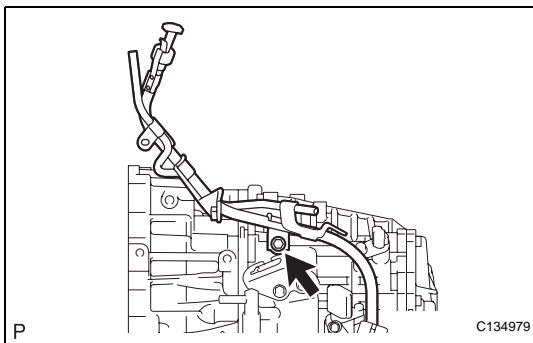
4. INSTALL NO. 1 TRANSMISSION CONTROL CABLE BRACKET

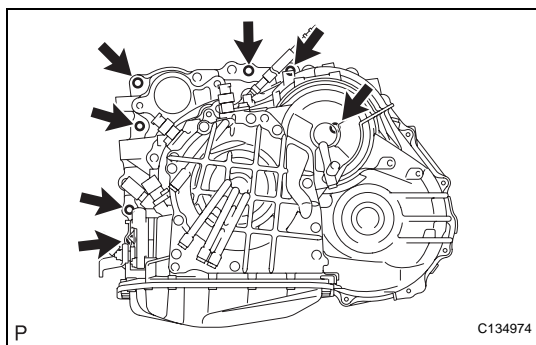
- (a) Install the cable bracket with the 2 bolts.
Torque: 12 N*m (122 kgf*cm, 9 ft.*lbf)



5. INSTALL TRANSMISSION OIL FILLER TUBE SUB-ASSEMBLY

- (a) Install the filler tube with the bolt.
Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)
- (b) Install the ATF dipstick.

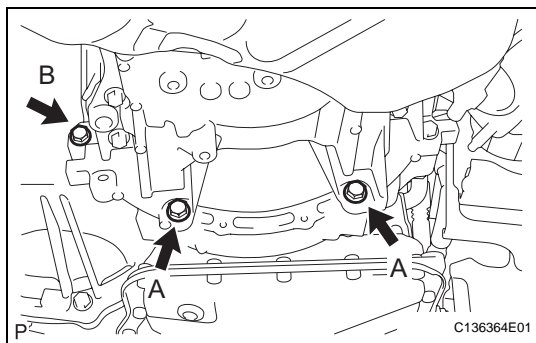




6. INSTALL AUTOMATIC TRANSAXLE ASSEMBLY

- (a) Install the automatic transaxle to the engine with the 7 upper side mounting bolts.

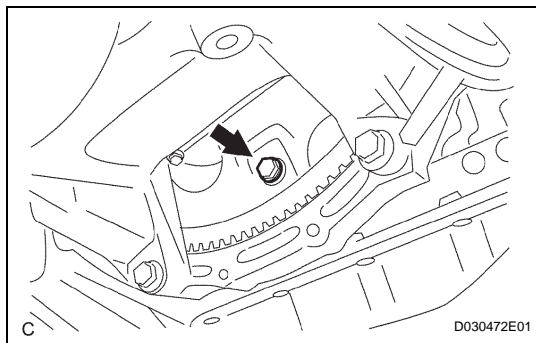
Torque: 64 N*m (653 kgf*cm, 47 ft.*lbf)



- (b) Install the 3 lower side mounting bolts.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf) for bolt A

46 N*m (469 kgf*cm, 34 ft.*lbf) for bolt B

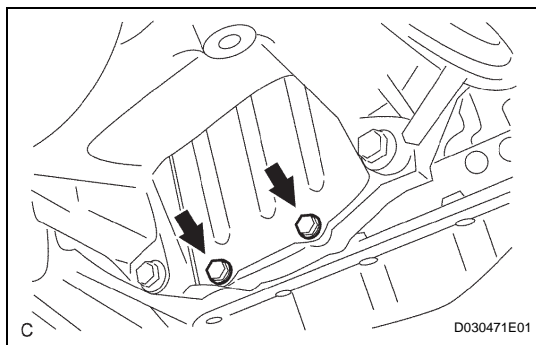


- (c) Install the 6 torque converter clutch mounting bolts.

Torque: 41 N*m (418 kgf*cm, 30 ft.*lbf)

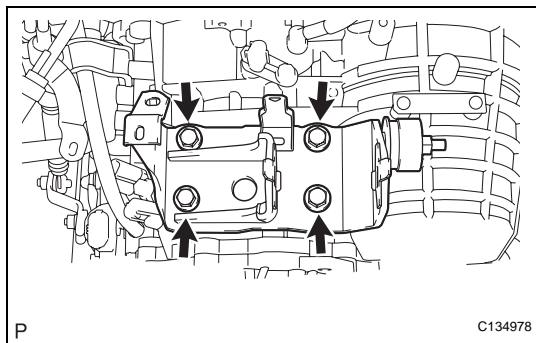
HINT:

First install the green colored bolt and then the other 5 bolts.



- (d) Install the flywheel housing under cover with the 2 bolts.

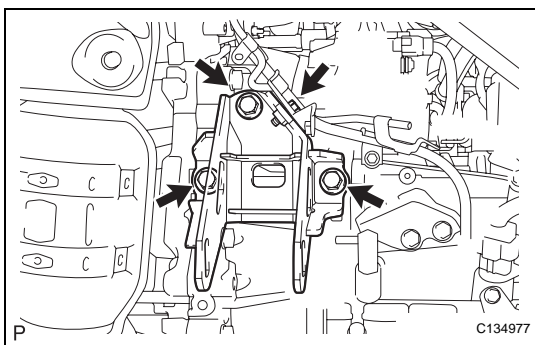
Torque: 7.8 N*m (80 kgf*cm, 69 in.*lbf)



7. INSTALL ENGINE MOUNTING BRACKET LH

- (a) Install the mounting bracket with the 4 bolts.

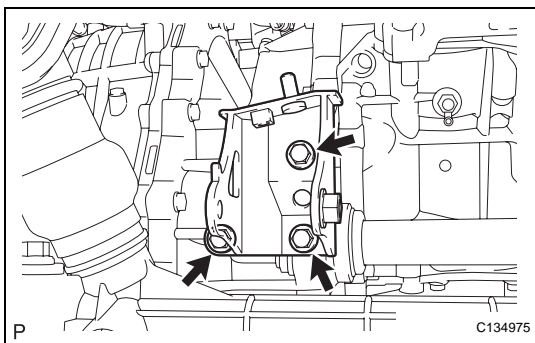
Torque: 64 N*m (653 kgf*cm, 47 ft.*lbf)

**8. INSTALL FRONT ENGINE MOUNTING BRACKET**

- (a) Install the mounting bracket with the 4 bolts.

Torque: 64 N*m (657 kgf*cm, 47 ft.*lbf)

Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf) for filler tube bolt

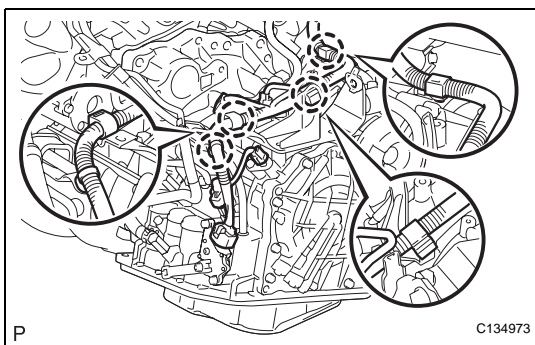
**9. INSTALL REAR ENGINE MOUNTING BRACKET**

- (a) Install the mounting bracket with the 3 bolts.

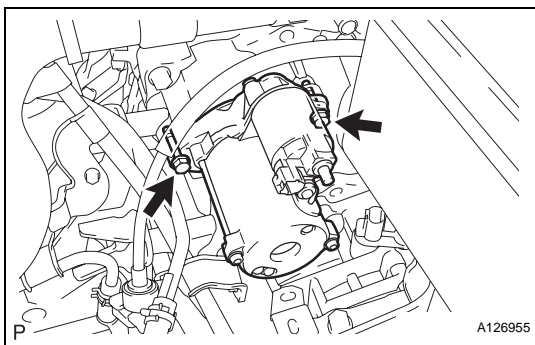
Torque: 45 N*m (459 kgf*cm, 33 ft.*lbf)

10. INSTALL TRANSMISSION OIL COOLER HOSES AND TUBE

- (a) Install the transmission oil cooler hoses and tube (see page [AX-152](#)).

**11. CONNECT WIRE HARNESS**

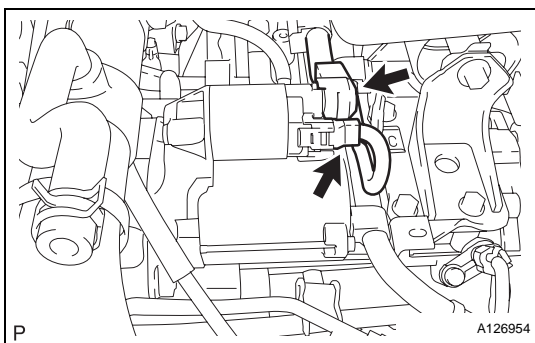
- (a) Connect the wire harness clamps.
 (b) Connect the 2 speed sensor connectors.
 (c) Connect the transaxle wire connector.
 (d) Connect the park/neutral position switch connector.

**12. INSTALL STARTER ASSEMBLY**

- (a) Install the starter with the 2 bolts.

Torque: 37 N*m (377 kgf*cm, 27 ft.*lbf)

- (b) Connect the starter connector.



- (c) Install the terminal nut and cover the nut with the cap.

Torque: 9.8 N*m (100 kgf*cm, 88 in.*lbf)

13. INSTALL ENGINE ASSEMBLY WITH TRANSAXLE

- (a) Install the engine with transaxle (see page [EM-31](#)).

14. ADD AUTOMATIC TRANSAXLE FLUID

Fluid type:

Toyota Genuine ATF WS

15. INSPECT AUTOMATIC TRANSAXLE FLUID

- (a) Inspect the automatic transaxle fluid (see page [AX-126](#)).

16. PERFORM RESET MEMORY

- (a) Perform the RESET MEMORY procedures (A/T initialization) (see page [AX-20](#)).